

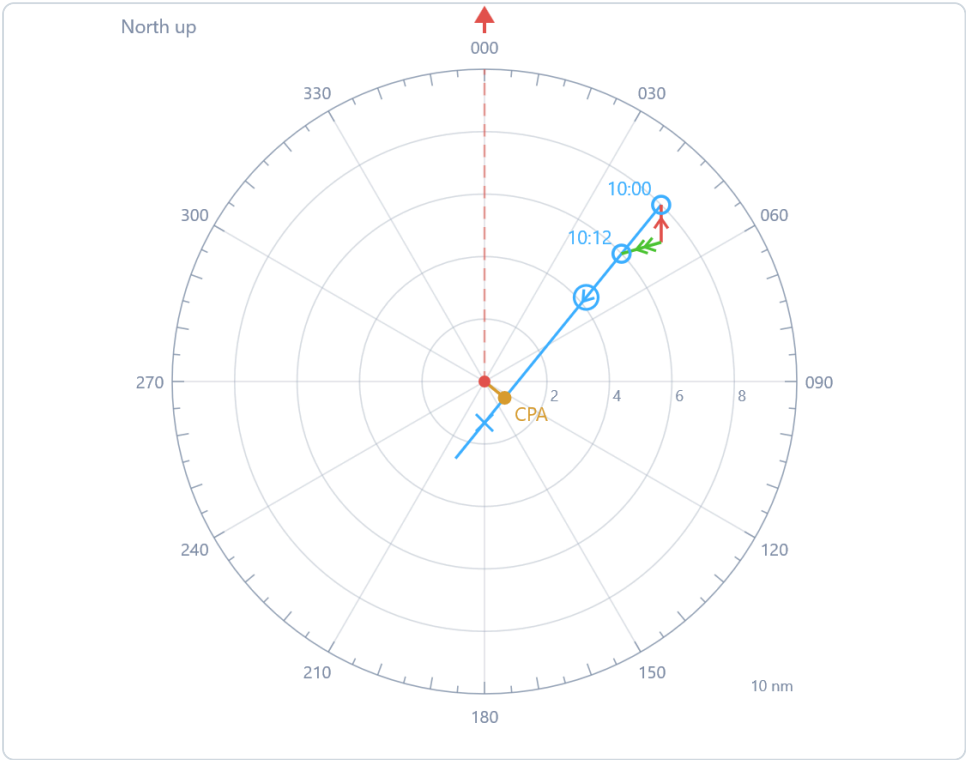
Radar Plotting

NauticTools2 – report of 22.10.2026, 14:22

Input

Radar setting	North up
Own true course	000°
Own speed through water	6 kn
1st obs.	10:00, RaB 045°, 8 nm
2nd obs.	10:12, RaB 047°, 6 nm

Radar Plotting



Result

Closest point of approach (CPA)	0.8 nm
Time of CPA (TCPA)	10:47
True bearing at CPA	129°
Relative bearing at CPA	129°
Relative course of B	219°
Relative speed of B	10.1 kn
True course of B	254°
True speed of B	6.6 kn
B crosses own course line	10:54, 1.3 nm astern

Calculation

1st observation	10:00: <i>rwRaP</i> 045°	8.0 nm
2nd observation	10:12: <i>rwRaP</i> 047°	6.0 nm
Time interval	10:12 – 10:00	12 min
Relative distance B	<i>distance 1st → 2nd observation</i>	2.01 nm
Relative course	<i>direction 1st → 2nd observation</i>	219°
Relative speed	$2.01 \text{ nm} / 12 \text{ min} \times 60$	10.1 kn
CPA	<i>perpendicular from the centre to the relative track</i>	0.8 nm
TCPA	$5.94 \text{ nm} / 10.1 \text{ kn} = 35.4 \text{ min nach } 10:12$	10:47
True bearing CPA	<i>bearing of the foot of the perpendicular</i>	129°
Relative bearing CPA	$rwPCPA - rwK = 129^\circ - 000^\circ$	129°
Own distance run	$6.0 \text{ kn} \times 12 \text{ min} / 60 \text{ in } 000^\circ$	1.20 nm
True course of B	<i>own distance + relative distance (vector triangle)</i>	254°
True speed of B	$1.32 \text{ nm} / 12 \text{ min} \times 60$	6.6 kn
Crosses course line	<i>relative track crosses own course line 1.32 nm astern</i>	10:54